OMI TASK CLOSEOUT CHECKLIST

ОМ	l No.	Run No.	Task Contro	No. (TCI	۷)
V	6028,001 A04		2914	1275	•
1	t Date	Completion Date	Closure Date	•	
	04/19/02	04/19/62	(300) 4-23-	02	
	Bartatian Indana Martinda			QC/Eng.	Date
1.	Verify entry is correct into O	I number of deviations agree with MI.	index.	思	04/22/or
2.	Constraints: Verify all const	TH 23	04/22/06		
3.	IPR's: Verify that all IPR's a or dispositioned as no const central IPR system and a co	TH 23	oylri/oz		
4.	Verify that material and equi	EH 23	ortector		
5.	OMI: Verify that all pages or and dated in the lower left/rig	verification sheets are completed thand corners.	stamped,	田図	outrion
6.		neous documents/procedures hav iped; e.g., photos, sample results,		TH 23	04/22/02
7.	Planned task/OM/satisfactor OPR: SFOL 105 56.	ily completed TH 64/82/02 23		TH 23	04/22/02

POST FLT ORB REUSABLE SURFACE INSULATION RUNWAY ENGINEERING WALKDOWN

Element/End Item: 102, 103, 104, 105

Flow/Usage: NA

Facility: AAFB, BANJUL, BENGUE, DFRF, ELS, HAFB, MORON, SLF, WSSH,

ZARAG

Design Center Concurrence: NA

Category: F
OPR: TPS
TTL ORG: SE

This document does not contain hazardous operations.

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OMI V6028.001 A04 APPROVED

Table of Contents:

1.0 INFORMATION	1
1.1 Objective	
1.2 Special Instructions All Operations	1
1.3 Operations List	
2.0 SAFETY INFORMATION	
2.4 Reference Safety Documentation	
3.0 STAGING REQUIREMENTS	
4.0 PLANNING REQUIREMENTS	
4.4 Support Services, Commodities, and Equipment	
4.4.9 Vehicles, Ground Support Equipment, and Special Equipment	
4.4.13 Other Support (KSC)	
5.0 CONFIGURATION ACCOUNTING AND VERIFICATION	
5.1 Specific OMRS Requirements Satisfied by this TOP	

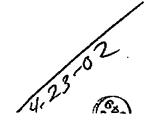
1.0 INFORMATION

1.1 Objective

To perform post-landing survey/inspection of Orbiter Thermal Protection Subsystem (TPS) to determine if components exhibit obvious damage that would require reservicing, repair, redesign or replacement.

1.2 Special Instructions All Operations

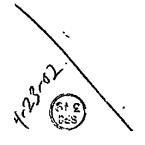
- 1. Suspect nonconformance's shall be augmented by various other nondestructive methods (shims, etc.).
- 2. Unless otherwise specified, inspection(s) shall be accomplished visually.
- 3. Handling or movement of components shall be held to a minimum.
- 4. Inspection steps may be performed out of sequence and/or concurrently in different areas.
- 5. Special precautions in handling RSI:
 - RSI ceramic tiles are very fragile and easily damaged. The highly porous, low density ceramic fibermat core is exceptionally low in tensile and compression strengths. Glaze on five faces of the tile is a thin brittle glass over a core offering very low resistance to crushing stresses. Slight finger pressure can often fracture the glaze making repair or replacement necessary. Exterior glass fabric or flexible insulation blankets, gap fillers and thermal barriers are easily snagged, abraded and damaged. RSI replacement and repair is difficult, expensive and time consuming.
 - Tile glaze is designed to seal outer surface of tile and provide critical optical properties. Properties may be partially lost or destroyed by fingerprints or contamination on the glazed surface. Contamination on nonglazed faying surface may significantly affect attachment-bonding characteristics.



- **6.** Mandatory precautions in handling RSI:
 - Wear clean white low-lint gloves when handling tile or tile subassemblies and subassembly components (strain isolator pads and filler bars), flexible insulation blankets and blanket components, thermal barriers and/or gap fillers.
 - Handle delicate tiles and tile subassemblies with extreme care to avoid fracturing the thin brittle glass surface glaze by squeezing, bumping or dropping.
 - Use extra caution to avoid bumping RSI when positioning work stands in RSI work or storage areas.
 - Comply with tethering/taping instructions.
- 7. During inspection, adequate lighting shall be obtained if not available in inspection area.

1.3 Operations List

	Operation		OPR	Haz (Y/N)	Duration (Hrs)
No.	Title				
10	TASK TEAM READINESS	TPS/ NONE	TPS	N	0.3
20	TPS ENG LANDING QUICK LOOK	TPS/ NONE	TPS	N	2.0



2.0 SAFETY INFORMATION

2.4 Reference Safety Documentation

Number	Rev	Title
KHB 1710.2	LI	KSC Safety Practices Handbook
GSOP 5400	LI	Ground Safety Operating Procedure

3.0 STAGING REQUIREMENTS

4.0 PLANNING REQUIREMENTS

OIR Required Yes [], No [X]

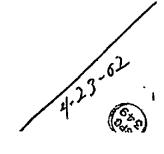
4.4 Support Services, Commodities, and Equipment

4.4.9 Vehicles, Ground Support Equipment, and Special Equipment

- (1) A72-0812, Access Stand, 11 to 29 ft
- (2) Hi-Ranger, 50 ft

4.4.13 Other Support (KSC)

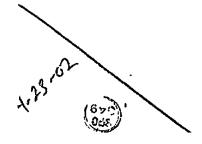
 Nondedicated support shall be requested via STS/Payload KSC Integrated Control Schedule.



5.0 CONFIGURATION ACCOUNTING AND VERIFICATION

5.1 Specific OMRS Requirements Satisfied by this TOP

OMRS NO.	NOMENCLATURE/ EFFECTIVITY	SEQ-STEP (CAP)
V09AJ0.097	POST LANDING RUNWAY QUICK LOOK INSP 03 V02F14-90 V03F16-90 V04F14-90 V05F4-90	20-001



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OPERATION 10 TASK TEAM READINESS

Shop: TPS

Cntrl Rm Console: NONE

OPR: TPS
Zone: 100

Hazard (Y/N): N Duration (Hrs): 0.3

Call To Stations

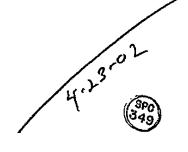
10-1 Verify constraints status.

10-2 Verify following personnel on station and ready to proceed with inspection.

Table 10-1 Required Personnel		
NASA KSC TPS Eng	1	
SFOC TPS Eng	1	
LSS TPS Eng	1	

*** End of Call To Stations ***

*** End of Operation 10 ***



OPERATION 20 TPS ENG LANDING QUICK LOOK

Shop: TPS

Cntrl Rm Console: NONE

OPR: **TPS** Zone: **100**

Hazard (Y/N): N Duration (Hrs): 2.0

TPS Engineering Team Post-Landing Runway Quicklook Inspection

NOTE

Post-landing runway quicklook inspection is to be performed after scheduled landing immediately following vehicle hazard and safety inspection. For unscheduled landing, perform as soon as practical.

Engineering shall assess overall vehicle TPS post-flight condition while placing special emphasis on potential impacts to TPS turnaround processing.

Team shall consist of NASA KSC, SFOC and LSS TPS Engineering.

Grossly anomalous conditions must be identified for PR initiation and addressed as soon as practical to support ferry flight and other post-flight turnaround activities.

20-1 TPS Engineering Team perform post-landing Orbiter walkdown visual inspection for gross TPS damage/anomalies. Sign upon completion of inspection.

OMRSD V09AJ0.097

0.45 CP

NASA KSC SE

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SFOC SE

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04/19/02

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Date 4/19/0

Engineering and debris team take samples as deemed necessary. Document all samples in Table 20-1 (Sample Log). Before any samples are taken, obtain the following concurrence:

SFOC TPS Eng	Nla	Date	N/A
NASA TPS Eng	MA	Date	MA
LSS TPS Eng	NA	Date	MA

(Not Performed:)

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Ate m	Part Number	Location	Remarks TPS Eng Team Signature	N/P
1				NP
2				NP
3				NP
4			VIP	NP
5		1 1th		NP
6		Morning	102	NP
7		unl		NP
8				NP
9				NP
10				NP

*** End of TPS Engineering Team Post-Landing Runway Quicklook Inspection ***

	NOTE
Do not perform 20-3 if no debris	samples were taken in the previous step.

20-3	Route samples with P/N, vehicle location and other pertinent data to NASA Debris Team Leader for analysis.					A
	SFOC TPS Eng			Date	*****	

Not Performed:

10° 42.4

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 \star no data found on the database for the selected parameters \star